### **BEST AVAILABLE COPY**

### INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004932

	PUI/EF
a. classification of subject matter IPC 7 A62B17/00	

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A41D A42B A62B A62D B60J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 078 491 A (WOOD HARRIS & CO LTD) 13 January 1982 (1982-01-13) page 1, left-hand column, lines 5-10 page 1, left-hand column, lines 55-62 - right-hand column, lines 63-72 page 1, right-hand column, lines 95-98; figures 1,2	1–16
X	US 5 653 225 A (SCHEGERIN ROBERT) 5 August 1997 (1997-08-05) column 1, lines 6-9 column 2, lines 1-15 column 3, lines 4-37; figures 2,3	1-21
Α	DE 198 34 688 A (BAYERISCHE MOTOREN WERKE AG) 3 February 2000 (2000-02-03) abstract; figures 	4-6

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents:  A* document defining the general state of the art which is not considered to be of particular relevance  E* earlier document but published on or after the international filing date  L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O* document referring to an oral disclosure, use, exhibition or other means  P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
24 August 2004	01/09/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	van Bilderbeek, H.

# BEST AVAILABLE COPY

### INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004932

2 (2 - 1)	DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/EP2004/004932
<u> </u>	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, or the relevant pessages	
Ą	DE 77 15 247 U (DENSO-CHEMIE WEDEKIND KG) 25 August 1977 (1977-08-25) figure 1	7
A	EP 0 057 517 A (SIMPSON KEITH BELLAS) 11 August 1982 (1982-08-11) page 3, lines 19-38 - page 4, lines 1-36; figure 1	11
4	DE 39 24 033 A (RUITER ERNEST DE ; BLUECHER HASSO VON (DE)) 28 February 1991 (1991-02-28) column 2, lines 14-16	12,16
<b>A</b>	US 4 500 581 A (KOMAGATA HIDEKI ET AL) 19 February 1985 (1985-02-19) column 6, lines 38-56	12,16
A	US 2 086 325 A (NATHAN FRANKEL) 6 July 1937 (1937-07-06) figures	15
A	DE 87 10 165 U (GULDENER, FRITZ) 1 October 1987 (1987-10-01) page 4, lines 4-24 page 8, lines 17-26; figure 1	
A	US 2003/033657 A1 (AUSTIN RICK A) 20 February 2003 (2003-02-20) page 1, paragraph 11 page 1, lines 13-17, paragraph 15; figures & US 4 174 710 A (PAMPUCH KLAUS) 20 November 1979 (1979-11-20)	
A	US 2 005 072 A (BOOHARIN LEO Y) 18 June 1935 (1935-06-18) page 2, right-hand column, lines 42-44; figure 1	

## BEST AVAILABLE COPY

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP2004/004932

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
GB 2078491	Α	13-01-1982	NONE			
US 5653225	 A	05-08-1997	FR	2686795		06-08-1993
			DE	69304629	D1	17-10-1996
			DE	69304629	T2	03-04-1997
			EP	0578808	A1	19-01-1994
			WO	9314818	A1	05-08-1993
DE 19834688	A	03-02-2000	DE	19834688	A1	03-02-2000
DE 7715247	U	25-08-1977	DE	7715247	U1	25-08-1977
EP 0057517	Α	11-08-1982	DE	3272496		18-09-1986
			EP	0057517		11-08-1982
			EP	0150261	A2	07-08-1985
DE 3924033	Α	28-02-1991	DE	3924033	A1	28-02-1991
US 4500581	A	19-02-1985	JP	1057619	В	06-12-1989
			JP	1569607		10-07-1990
			JP	57156036		27-09-1982
			DE	3210070		18-11-1982
			GB	2096536		20-10-1982
			NL	8201181	A ,B,	18-10-1982
US 2086325	Α	06-07-1937	NONE			
DE 8710165	U	01-10-1987	DE	8710165	U1	01-10-1987
US 2003033657	A1	20-02-2003	NONE			
US 4174710	Α	20-11-1979	DE	2718864	A1	09-11-1978
US 2005072	Α	18-06-1935	NONE			